



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/064,892		08/27/2002	Thomas M. Breuel	111744	3616	
27074	7590	05/11/2006		EXAM	EXAMINER	
OLIFF & F		GE, PLC.	PAULA, CESAR B			
P.O. BOX 19928 ALEXANDRIA. VA 22320				ART UNIT	PAPER NUMBER	
ALEXAND	2178					
			DATE MAILED: 05/11/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/064,892	BREUEL ET AL.			
	Office Action Summary	Examiner	Art Unit			
		CESAR B. PAULA	2178			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
2a)⊠	Responsive to communication(s) filed on 2/28/9 This action is FINAL . 2b) This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro				
Dispositi	on of Claims					
5) □ 6) ☑ 7) □ 8) □ Applicati 9) □ 10) □	Claim(s) 1,3-16 and 18-28 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1,3-16 and 18-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner Che oath or declaration is ob	vn from consideration. relection requirement. repted or b) □ objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected to be the drawing(s) is objected	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some col None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) 🔲 Notice 3) 🔲 Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) eation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	e			

Application/Control Number: 10/064,892 Page 2

Art Unit: 2178

DETAILED ACTION

1. This action is responsive to the amendment filed on 2/28/2006.

This action is made Final.

2. In the amendment, claims 1, 3-16, and 18-28 are pending in the case. Claims 1, 14, and

16 are independent claims.

3. The rejections of claims 1, 3-16, and 18-28 under 35 U.S.C. 102(e) as being anticipated

by Formanek et al, hereinafter Formanek (USPub.# 2003/0014445, 1/16/2003, filed 7/13/01, as

disclosed in IDS filed on 9/24/03) have been withdrawn as necessitated by the amendment.

Priority

4. Acknowledgment is made of applicant's claim for domestic priority under 35

U.S.C. 119(e), and based on U.S provisional application #60/360,171 filed on 3/1/2002, which

papers have been placed of record in the file.

Drawings

5. The drawings filed on 8/27/2002 have been approved by the Examiner.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

Application/Control Number: 10/064,892 Page 3

Art Unit: 2178

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1, 3-16, and 18-28 remain rejected under 35 U.S.C. 102(e) as being anticipated by Formanek et al, hereinafter Formanek (USPub.# 2003/0014445, 1/16/2003, filed 7/13/01, as disclosed in IDS filed on 9/24/03), in view of Microsoft Paint XP, 2001, "Save As" screendumps, Microsoft Windows XP Professional.

Regarding independent claim 1, Formanek discloses decomposing, and processing a document image, in a sequence of steps, in a bitmap format—deconstructing a document in a page image format -- (0029, 0032).

Moreover, Formanek discloses that as a result of the decomposition, and processing of the document, an intermediate document, comprising of an image divided into image and text blocks, is put together—synthesizing the deconstructed document into an intermediate data structure -- (0032, fig. 3b). The image and text blocks can be converted to a commercially available format, such as pdf, ASCII, etc. (0025, 0028) (as also was well known in the art, and exemplified by the "Save As" feature of Microsoft Paint XP, which converts BMP formatted documents into a number of formats including TIFF).

Furthermore, Formanek discloses the reflowing of the decomposed document to fit into the size, such as width, of a target device's display. The target device adapts the document, when

Art Unit: 2178

it receives it, so that it does not exceed the display width of the device's screen—distilling the intermediate data structure for redisplay by converting the intermediate data structure into a format usable for an arbitrarily sized display structure, wherein the intermediate data structure is automatically adaptable at the time of display to constraints of any display device or circumstance of viewing (0012,0024,0030, 0034, fig. 4).

Regarding claim 3, which depends on claim 2, Formanek discloses that as a result of the decomposition the document image is divided into image and text blocks—physical segmentation of data -- (0032, fig. 3b).

Regarding claim 4, which depends on claim 1, Formanek discloses that as a result of the decomposition the document image is divided into image and text blocks (0032, fig. 3b).

Regarding claim 5, which depends on claim 1, Formanek discloses that as a result of the decomposition the document image turns into a document divided with image blocks based upon the image location, width and height—converting non-text image areas, Layout properties and segmented image areas into the intermediate data structure—(0032-0033, fig. 3b).

Regarding claim 6, which depends on claim 1, Formanek discloses the reflowing of the decomposed document to fit into the size, such as width, of a target device's display—intelligible display layout -- (0030, 0034, fig. 4).

Art Unit: 2178

Regarding claim 7, which depends on claim 6, Formanek discloses that as a result of the decomposition the document image is divided into image and text blocks. The text blocks show segmented word images in a reading order (0032-0033, fig. 3c).

Regarding claim 8, which depends on claim 1, Formanek discloses the storage of the bitmap image blocks in a processing device (0030).

Regarding claim 9, which depends on claim 1, Formanek discloses the reflowing of the decomposed document to fit into the size, such as width, of a target device's display. The reflowed document is displayed in a readable manner, such as a single format (0030, 0034, fig. 4).

Regarding claim 10, which depends on claim 1, Formanek discloses the reflowing of the decomposed document to fit into the size, such as width, of a target device's display. The document is retrieved over the Internet, reformatted, and displayed—*Internet browsable format* - (0027, 0034, fig. 4).

Regarding claim 11, which depends on claim 1, Formanek discloses the reflowing of the decomposed document to fit into the size, such as width, of a target device's display—device specific display format -- (0027, 0034, fig. 4).

Regarding claim 12, which depends on claim 1, Formanek discloses the *reflowing* of the decomposed document to fit into the size, such as width—*screen size* --, of a target device's display (0027, 0034, fig. 4).

Regarding claim 13, which depends on claim 1, Formanek discloses the reflowing of the decomposed text in the document to fit into the size, such as width, of a target device's display (0027, 0034, fig. 4).

Regarding independent claim 14, Formanek discloses identifying block positions of various text, and image regions, and decomposing a document image in a format, such as a pdf format,—analyzing page layout, converting a sequence of page images into a sequence of document elements images captured in a tagged format -- (0029, 0032, fig. 3b).

Furthermore, Formanek discloses the reflowing of the decomposed document to fit into the size, such as width, of a target device's display—re-converting the tagged format. The document is retrieved over the Internet, reformatted, and displayed—Internet browsable format - (0027, 0034, fig. 4).

Regarding claim 15, which depends on claim 14, Formanek discloses that as a result of the decomposition the document image is divided into image and text blocks. The text blocks show segmented word images in a reading order (top to bottom text organization) similar to that of the original document (0032-0033, fig. 3c).

Art Unit: 2178

Regarding claim 16, limitations an input/output device.....a distilling circuit...are directed towards a computer system for implementing the steps found in claims 1, and therefore are similarly rejected.

Moreover, Formanek discloses the document image is divided into image blocks, by placing a bounding block around each word by identifying the location of the word, and graphics—deconstruct the document into image areas, and segmented image elements. A software identifies the locations, height and width—layout properties—of text and graphic blocks (0032-0033, fig. 3b).

Moreover, Formanek discloses that as a result of the decomposition the document image turns into a document divided with image blocks—synthesizes the non-text image areas, the layout properties, and the set of segmented image elements into an intermediate data structure -- (0032-0033, fig. 3b).

Furthermore, Formanek discloses the reflowing of the decomposed document to fit into the size, such as width, of a target device's display—distilling the intermediate data structure for redisplay in a format usable for an arbitrarily sized display structure -- (0030, 0034, fig. 4).

Claims 18-20, and 22-27 are directed towards a computer system for implementing the steps found in claims 3, 6-7, and 10-15 respectively, and therefore are similarly rejected.

Regarding claim 21, which depends on claim 16, Formanek discloses the storage of the bitmap image blocks—deconstructed document—in a processing device (0030).

Art Unit: 2178

Regarding claim 28, which depends on claim 26, Formanek discloses that as a result of the decomposition the document image is divided into image and text blocks—segmentation algorithm --. A software identifies the locations of text and graphic blocks—structure analyzer-(0032, fig. 3b).

Response to Arguments

8. Applicant's arguments filed on 2/28/2006 have been fully considered but they are not persuasive.

The Applicants submit that Formanek fails to disclose that the data structure is automatically adaptable at the time of display to constraint any display device (page 9). The Examiner disagrees, because Formanek teaches the reflowing takes place at the time of the display of the document image, on the display device (0012, 0030,0034).

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 10/064,892 Page 9

Art Unit: 2178

I. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Hillar et al (USPub 2002/0046245).

I. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Cesar B. Paula whose telephone number is (571) 272-4128. The examiner

can normally be reached on Monday through Friday from 8:00 a.m. to 4:00 p.m. (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Hong, can be reached on (571) 272-4124. However, in such a case, please

allow at least one business day.

Information regarding the status of an application may be obtained /from the Patent

Application Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, go to http://portal.uspto.gov/external/portal/pair. Should you have any questions about

access to the Private PAIR system, please contact the Electronic Business Center (EBC) at 866

217-9197 (toll-free).

Any response to this Action should be mailed to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Or faxed to:

• (571)-273-8300 (for all Formal communications intended for entry)

CESAR PAULA PRIMARY EXAMINER

5/9/06